

Adhesive Mats



Valutek's multi-layered low-density polyethylene adhesive mats are designed to effectively capture dirt and dust from foot traffic and equipment wheels before they enter a cleanroom or controlled environment. Each removable layer of the Valutek adhesive mats features a specially developed adhesive coating that provides an efficient means of reducing contamination by trapping and preventing the transfer of particles.

Application

Valutek offers mats suitable for MacroTek, MicroTek, and NanoTek applications. These mats are ideal for a wide range of applications, including entrances to cleanrooms, gowning rooms, laboratories, or workstations that require high levels of contamination control. Adhesive mats are extensively used in various industries, such as semiconductor, biotechnology, medical device, pharmaceutical, aerospace, automotive, and construction.

Part Number: VTXXX/4P30L-B/W/G

Storage and Environmental Conditions

Correct Storage Orientation

Valutek adhesive mats should be stored horizontally and stacked carefully to prevent damage. Storing them vertically or with heavy objects on top may cause the mats to become damaged or distorted. Signs of damage include the presence of bubbles and veins between the mat layers. Such imperfections can lead to an uneven surface, resulting in the mat peeling away from the floor and a decrease in its performance.

Product Shelf Life

Under appropriate environmental storage conditions, Valutek adhesive mats will maintain high performance for up to 6 months from the manufacture date. After this period, the adhesion performance of the mats will gradually diminish over time.

Environmental Conditions

Care and consideration must be given to the environmental storage conditions of adhesive mats. Valutek mats employ a water-based adhesive, which can be compromised by extreme temperatures. Exposure to extreme cold can harden the adhesive, rendering it ineffective. While short-term exposure to cold will not cause permanent damage, the mat must be allowed to re-equilibrate or 'warm up' to a minimum of 32°F (0°C) before installation and use. On the other hand, exposure to extreme heat can cause the adhesive to break down, leading to irreversible damage to the mat at temperatures exceeding 105°F (40.5°C).

Product Performance

To ensure optimal performance of Valutek adhesive mats, it is important to change the mat layers at a frequency determined by several factors: the number of operators, the number of "passes" (defined as one person walking across the mat one time, with each foot making full contact with the mat once), the class of the environment, and the quantity of particles captured. Valutek recommends changing a mat layer after every 50 passes.



Gloves



Wipers



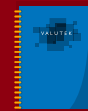
Apparel



Adhesive Mats



Cleaning & Maintenance



Documentation



Glove Liners



ESD

Valutek Adhesive Mats

Part Number: VTXXX/4P30L-B/W/G



Mat Physical Properties

Attribute	Value (Metric Units)
Adhesive	Acrylic (Water Based)
Film Thickness	
First Cover Sheet (clear)	0.04 mm ± 0.004mm
Disposable Sheet (colored)	0.04 ± 0.003 mm
Bottom Cover Sheet (clear)	0.04 ± 0.004 mm
Adhesive Strength	
Active Layer Adhesive Strength	300 ± 25 g/25mm
Mat Backing Adhesive Strength	500 ± 50 g/25mm
Tensile Strength	
Horizontal	> 10 Mpa
Vertical	> 8 Mpa
Elongation	
Horizontal	> 150%
Vertical	> 200%
Heat Resistance	60°C/48 Hours
Cold Resistance	13°C/48 Hours

Sizes, Colors and Packaging

Available Sizes	Standard Color	Special Order Color	Packaging
18" x 36"	White/Blue	Grey	30 sheets / mat, 4 mats / case
18" x 45"	White	Grey/Blue	30 sheets / mat, 4 mats / case
24" x 36"	White/Blue	Grey	30 sheets / mat, 4 mats / case
26" x 45"	White/Blue/Grey	-	30 sheets / mat, 4 mats / case
36" x 36"	White	Grey/Blue	30 sheets / mat, 4 mats / case
36" x 45"	White/Blue	Grey	30 sheets / mat, 4 mats / case
36" x 60"	White/Blue	Grey	30 sheets / mat, 4 mats / case
36" x 72"	White/Blue	-	30 sheets / mat, 4 mats / case



Valutek WEST
Phoenix, AZ - USA

Valutek EAST
Albany, NY - USA

Valutek ASIA
Penang - Malaysia

1.800.763.1250

orderdesk@valutek.com

valutek.com

INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS